

Census Transportation Planning Package AN OVERVIEW



Ed J. Christopher
Midwestern Resource Center
Federal Highway Administration
19900 Governors Drive
Olympia Fields, IL 60461

708-283-3534
edc@edthefed.com

January 27, 2003

What is the CTPP?

The Census Transportation Planning Package is a set of special tabulations from the long form of the decennial census designed by transportation planners for transportation planners



It summarizes the data



Flows between
Home and Work



Who is developing it?

CTPP is a product of the states and MPOs funded through an AASHTO Pooled Fund Project



It is guided by a Working Group

USDOT (FHWA, BTS, FTA and OST)

Census Bureau (Migration and Geography Divisions)

AASHTO

States and MPOs

TRB Subcommittee on Census Data

www.TRBcensus.com

History



	Buyers/Users	Direct Cost	Tables
1960	OMB	???	???
1970	112	\$0.6 M	43
1980	152	\$2.0 M	82
1990	All States	\$2.5 M	120
2000	and MPOs	\$3.0 M	203

When is it due out?

CTPP will come out in 2- waves



**Residence Based Tables
Feb 2002**

**Workplace & Worker Flow Tables
Summer 2003**



How will it be packaged?



CD-Roms

Tables

One- Offs

How will it be Packaged?



CTPP Access Tool

Extraction Software
Generate Tables
Simple Mapping
Exportability
Calculate New Variables
Easy to Use

Clara will tell us more?



Will there be training?

Yes! Sort of



CTPP Guidebook

What is it?

- I Self-Paced, Individualized Training
- I CD-Rom Based
- I Loaded with Animations
- I Fun yet Informative
- I Less than 5-Hours to Complete
- I Chock Full of Information

What is in it?

MODULE One: Introduction to the CTPP
MODULE TWO: How is the CTPP Organized?
MODULE THREE: Overview of Products and Applications
MODULE Four CTPP Access Tool
MODULE FIVE: Data Quality Issues
Case Study 1: Trend Analysis
Case Study 2: Demographic Summaries
Case Study 3: Factoring Travel Surveys
Case Study 4: Developing Models
Case Study 5: Transit Service Planning
Case Study 6: Civil Rights Analysis

Elaine will tell us more



What will we be getting?

Let's Look at the Details



Tables—Lots of Tables



121 Tables of Residents' Based Data

68 Tables of Work Place Data

14 Tables of Flow Data

Variables--Lots of Variables



Person

Worker Status
Age, Sex, Race, Hispanic
Origin, Disability

Workers

Household

Income
Nos. Vehicles Available
Size and Nos. Workers

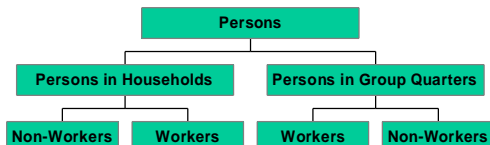
Journey-to-Work

Work Location and Mode
Departure and Travel Time
Arrival Time (Calculated)

Geography--Lots of Geography

	TAZ or Block Groups	Tracts	Combined Zones	MCD in 12 States	Place ... >2,500	County	State
Part 1 (at Residence)	← 121 Tables →						
Part 2 (at Workplace)	← 68 Tables →						
Part 3 (Worker Flows)	← 14 Tables →						

What is a "Universe"



CTPP 2000 Table Structure

Part 1: At Residence (121 Tables)

Group 1: All Workers	Tables 1-29
Group 2: Workers in Households	Tables 30-48
Group 3: Persons	Tables 49-61
Group 4: Households	Tables 62-83
Group 5: Housing Units	Tables 84 to 88
Group 6: Computed Tables	Tables 89-121

Part 2: At Workplace (68 Tables)

Group 1: All Workers	Tables 1-29
Group 2: Workers in Households	Tables 30-48
Group 3: Computed Tables	Tables 49-68

Part 3: Worker Flows (14 Tables)

Group 1: Small Geography	Tables 1-8
Group 2: Sm Geo Computed	Tables 9-14

Comparing SF3 to CTPP

SF3	CTPP
Travel time to Work (4) by Means of Transportation (2)	Travel time to Work (15) by Means of Transportation (10)
Tenure (2) by Vehicles Available (6)	Vehicles Avail (5) by Hhld Income (25)
	Vehicles Avail (5) by Nos. of workers in hhld (5)
	AND MORE

CTPP 2000 Table Summary

	Part 1	Part 2	Part 3
One-Way	12	3	5
Two-Way	88	54	9
Three-way	16	8	--
4-Way	5	3	--
	121	68	14

Sample CTPP Cross Tabulations

One-Way	Household income in 1999 (11)
Two-Way	Sex (3) by Age (12)
Three-Way	Household size (5) by Vehicles available (6) by Household income (11)
Four-Way	Vehicles available (3) by Hispanic origin (3) by Race of person (5) by Means of transportation to work (8)

<http://www.dot.gov/ctpp/>

CTPP 2000 Variable Summary

27 One-Level Variables
2 Two-Level Variables
2 Three-Level Variables
3 Four-Level Variables

34 Total Variables

Or 49 with Variations

Means of Transportation to Work

Drove Alone	Drove Alone	Drove Alone	Drove Alone
2 Person Carpool	2 Person Carpool	2 Person Carpool	
3 Person Carpool	3 Person Carpool		
4 Person Carpool			
5-6 Person Carpool	4+ Person Carpool	3+ Person Carpool	2+ Person Carpool
7+ Person Carpool			
Bus/Trolley Bus	Bus/Trolley Bus	Bus or Trolley Bus	Bus/Trolley Bus/
Streetcar/Trolley	Streetcar/Trolley/	Streetcar/Trolley/	Streetcar/Trolley/
Subway/Elevated	Subway/Elevated/	Subway/Elevated/	Subway/Elevated/
Railroad	Railroad/ Ferryboat	Railroad/ Ferryboat	Railroad/ Ferryboat
Ferryboat			
Bicycle	Bicycle/Walked	Bicycle/Walked/	Bicycle/ Walked/
Walked		Taxicab/	Taxicab/
Taxicab	Taxicab/	Motorcycle/other	Motorcycle/other
Motorcycle	Motorcycle/other	Means	Means/ Worked at
Other Means	Means		Home
Worked at Home	Worked at Home	Worked at Home	
17 Modes	10 Modes	7 Modes	4 Modes

CTPP 2000 Variable Summary

27 One-Le Tenure
Time Arriving at Work

2 Two-Level Variables

2 Three-Level Variables

3 Four-Level Variables

34 Total Variables

Or 49 with Variations

CTPP 2000 Variable Summary

27 One-Level Variables

2 Two-Level Variables
Age
Time Leaving Home

2 Three-Level Variables

3 Four-Level Variables

34 Total Variables

Or 49 with Variations

CTPP 2000 Variable Summary

27 One-Level Variables

2 Two-Level Variables

2 Three-Level Variables
Household Income
Household Vehicles
Means of Transportation

3 Four-Level Variables

34 Total Variables

Or 49 with Variations

CTPP 2000 Post DRB

Part 1: at Residence (121 Tables)

All Tables Rounded

Zero = 0

1 through 7 = 4

8 though ∞ = Nearest Multiple of "5"

Part 2: at Workplace (68 Tables)

All Tables Rounded

Part 3: Worker Flows (14 Tables)

All Tables Rounded

Some Tables with Thresholds

Example of Rounding

Mode to Work	Circa 1990	For 2000 (ROUNDED)
Total	352	350 (not 355!)
Drive Alone	212	210
Carpool	46	45
Transit	59	60
Walk	33	35
Bike	2	4

True Total 354

Part 3: Worker Flow Tables

Table	Content
1	Total Workers (1)
2	Vehicles Available (3--zero, one or two+) by Means of Transportation (7 modes)
3	Poverty Status (3 categories)
4	Minority Status (2--white non-hispanic and all others)
5	Household Income (8 classifications)
6	Means of Transportation (17 modes)
7	Household Income (4 classifications) by Means of Transportation (4 modes)
8	Mean Travel Time by Means of Transportation to Work (7 modes) and Time Leaving Home for Work (2--AM peak and all other times)
9	Median Travel Time by Means of Transportation to Work (7 modes) and Time Leaving Home for Work (2 groupings)
10	Aggregate Number of Vehicles by Time Leaving Home for Work (2, see table 8)
11	Number of Workers per Vehicle by Time Leaving Home for Work (2, see table 8)
12	Aggregate Number of Carpools by Time Leaving Home for Work (2, see table 8)
13	Number of Workers per Carpool by Time Leaving Home for Work (2, see table 8)
14	Aggregate Travel Time by Means of transportation to work (7 modes) and Time Leaving Home for Work (2, see table 8)

Part 3: Worker Flow Tables

Table	Content
1	Total Workers (1)
2	Vehicles Available (3--zero, one or two+) by Means of Transportation (7 modes)
3	Poverty Status (3 categories)
4	Minority Status (2--white non-hispanic and all others)
5	Household Income (8 classifications)
6	Means of Transportation (17 modes)
7	Household Income (4 classifications) by Means of Transportation (4 modes)
8	Mean Travel Time by Means of Transportation to Work (7 modes) and Time Leaving Home for Work (2--AM peak and all other times)
9	Median Travel Time by Means of Transportation to Work (7 modes) and Time Leaving Home for Work (2 groupings)
10	Aggregate Number of Vehicles by Time Leaving Home for Work (2, see table 8)
11	Number of Workers per Vehicle by Time Leaving Home for Work (2, see table 8)
12	Aggregate Number of Carpools by Time Leaving Home for Work (2, see table 8)
13	Number of Workers per Carpool by Time Leaving Home for Work (2, see table 8)
14	Aggregate Travel Time by Means of transportation to work (7 modes) and Time Leaving Home for Work (2, see table 8)

Subject to Rounding
Zero = 0
1 through 7 = 4
8 or more = nearest multiple of 5

Rounded according to the specifications used for all Census sample data products

Part 3: Worker Flow Tables	
Table	Content
1	Total Workers (1)
2	Vehicles Available (3-zero, one or two-) by Means of Transportation (7 modes)
3	Poverty Status (3 categories)
4	Minority Status (2-white non-hispanic and all other)
5	Household Income (8 classifications)
6	Means of Transportation (17 modes)
7	Household Income (4 classifications) by Means of Transportation (4 modes)
8	Mean Travel Time by Means of Transportation to Work (7 modes) and Time Leaving Home for Work (2-AM peak and all other times)
9	Median Travel Time by Means of Transportation to Work (7 modes) and Time Leaving Home for Work (2 groupings)
10	Aggregate Number of Vehicles by Time Leaving Home for Work (2, see table 8)
11	Number of Workers per Vehicle by Time Leaving Home for Work (2, see table 8)
12	Aggregate Number of Carpools by Time Leaving Home for Work (2, see table 8)
13	Number of Workers per Carpool by Time Leaving Home for Work (2, see table 8)
14	Aggregate Travel Time by Means of transportation to work (7 modes) and Time Leaving Home for Work (2, see table 8)

No record threshold

Must have 3 unweighted records

Other issues



American Community Survey (ACS)

- Funding (*in congress*)
- Transportation Research
 - NCHRP
 - US DOT

Breaking news



SF3 is Out – Watch for DVDs

Online Access to 1990 CTPP

<http://www.bts.gov/>

Journey to Work Profile Sheets

CTPP Residents Data w/CAT (*Soon*)

Electronic Guidebook (*beta today*)

Stay connected



<http://www.dot.gov/ctpp>

<http://www.TRBcensus.com>

202-366-5000

Are You on the CTPP-News Listserv?

Have You Seen our Newsletter (the Status Report)?